



CONSTRUCTION EQUIPMENT

VOLVO L90H 625046 - HYDRAULIC SYSTEM



Sample No: VCP417324
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP417324	VCP351124	VCP293901	---
Sample Date	12 Jun 2023	28 Jan 2022	09 Dec 2020	---
Machine Hours	3112	2000	957	---
Oil Hours	0	2000	957	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	SEVERE	ATTENTION	ATTENTION	---

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
rturner@ripatampa.com
T:
F:



OIL CONDITION

Visc @ 40°C	cSt	44.0	43.9	44.2	---
Acid Number (AN)	mg KOH/g	0.24	0.31	0.365	---



CONTAMINATION

Particles >4µm		55056	8422	8717	---
Particles >6µm		15420	1922	1523	---
Particles >14µm		479	196	123	---
ISO 4406:1999 (c)		23/21/16	20/18/15	20/18/14	---
Silicon	ppm	4	3	3	---
Sodium	ppm	2	0	1	---
Potassium	ppm	0	<1	0	---

Diagnosis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	9	7	4	---
Copper	ppm	3	2	2	---
Lead	ppm	2	3	2	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	1	<1	0	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	143	85	78	---
Magnesium	ppm	3	2	2	---
Zinc	ppm	427	472	421	---
Phosphorus	ppm	359	341	308	---
Barium	ppm	0	0	0	---
Boron	ppm	0	1	2	---

Depot: RIPTAM
Unique No: 10551895
Signed: Wes Davis
Report Date: 13 Jul 2023

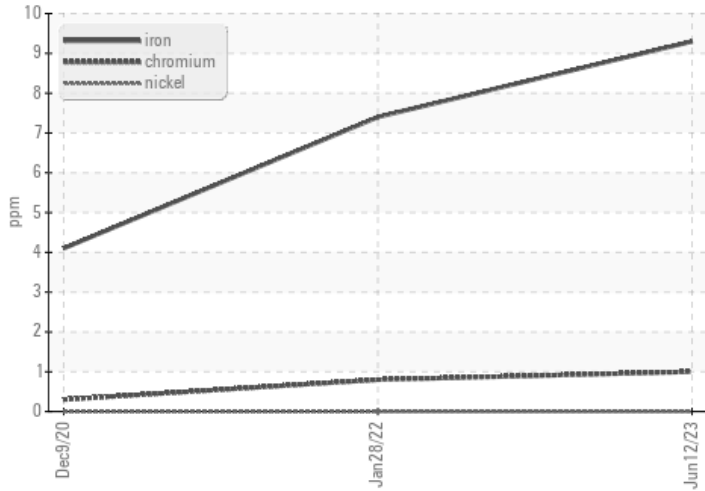


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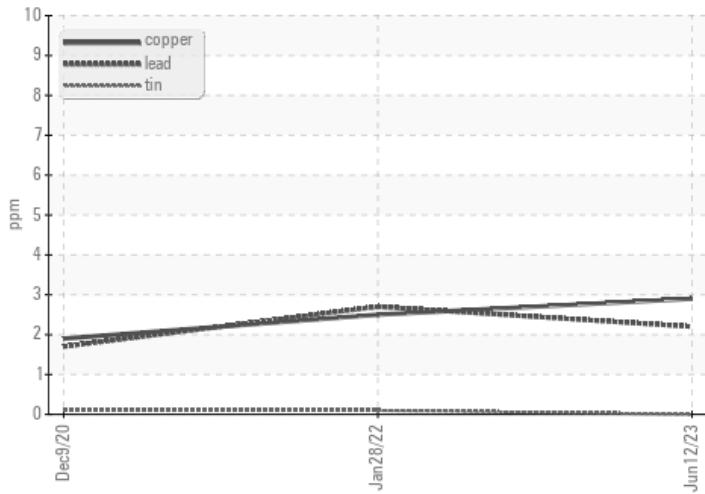


GRAPHS

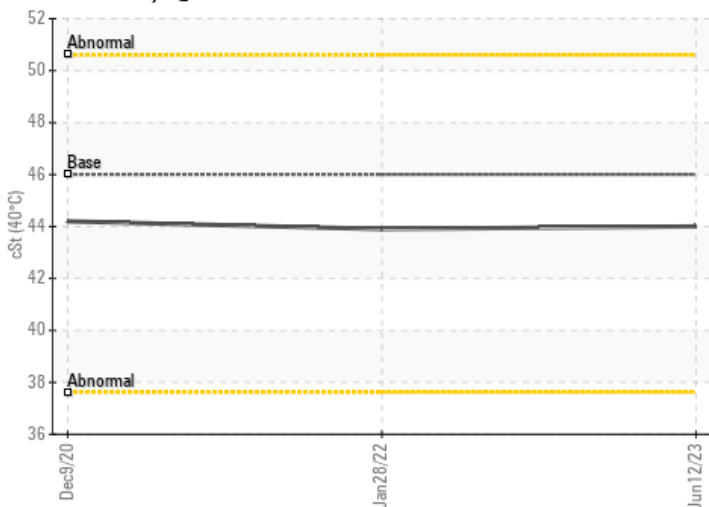
Ferrous Alloys



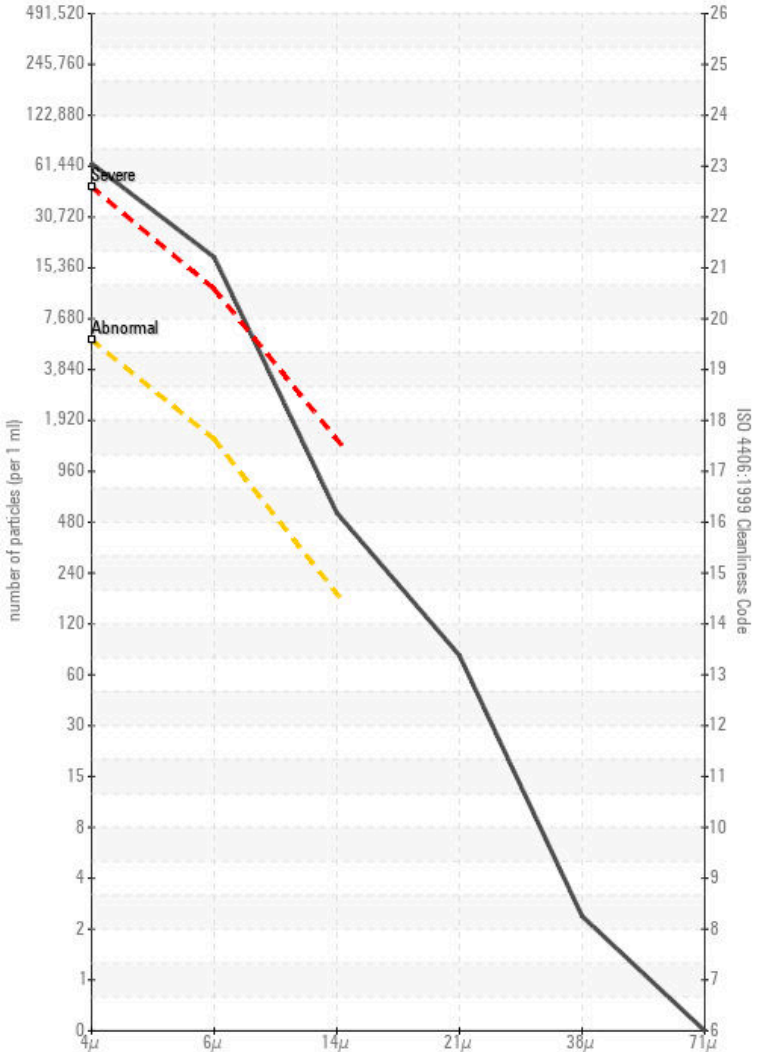
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

